

10 September 1996

**Table 1 - RbR Change Table: This table identifies modifications to an existing requirement in the RBR class as identified in the 7/31 baseline version of the RTM database.**

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	CCR	text	interpretation text
DADS0100#A	4051	mission essential	SDPS	functional	test	un-verified	demo	un-verified		Each DADS shall receive management directives from the SMC.	<u>A: Receive from SMC operators documents or email describing schedules, CM, and security directives.</u>
DADS0160#A	4057	mission essential	SDPS	functional	test	un-verified	demo	un-verified		A designated DADS shall receive from the EOC, at a minimum, the following: a. Spacecraft history log (or subset of history log) b. Associated Metadata	<u>A: EOC early interface testing Achieved via a file transfer protocol between EOC and the GSFC DAAC.</u>
DADS0210#A	4064	mission essential	SDPS	functional	test	un-verified	test	un-verified		Each DADS shall be capable of receiving, at a minimum, the following types of EOS instrument data in support of pre-launch checkout of the ground system: a. Real EOS instrument data b. Simulated EOS instrument data	<del>Rel-A has AM-1 ingest capability for early interface testing using simulated data.</del> <u>A: Operational Support for TRMM (CERES) @ LaRC, and early EDOS I/F testing support.</u>
DADS0281#A	4072	mission essential	SDPS	functional	test	un-verified	test	un-verified		Each DADS shall be capable of ingesting and storing data to support the instrument science team(s) in: a. Pre-launch checkout of their instruments b. Pre-launch science checkout c. Development of initial calibration information	<u>A: Operational Support for TRMM (CERES) @ LaRC, and early EDOS I/F testing support.</u>
DADS0770#A	4118	mission essential	SDPS	functional	test	un-verified	test	un-verified		The DADS shall reformat data sets in one of the approved standard formats including HDF.	<u>A: Convert certain products from native format to EOS-HDF, on input.</u>

10 September 1996

**Table 1 - RbR Change Table (con't): This table identifies modifications to an existing requirement in the RBR class as identified in the 7/31 baseline version of the RTM database.**

DADS0780#A	4119	mission fulfillment	SDPS	<del>functional procedural</del>	<del>test analysis</del>	un-verified	<del>test analysis</del>	un-verified		Each DADS shall have the capability to incorporate additional ingest and data distribution formats and conversion software.	
DADS2330#A	6408	mission essential	SDPS	functional	demo	un-verified	test	un-verified		Each DADS shall send to the PGS, at a minimum, the following: b. L0-L4 d. Metadata e. Ancillary data f. Calibration data g. Algorithms h. Schedules i. Status k. Special data sets l. Non-EOS science data from ADCs/ODCs	'Algorithms' implies science software components. Algorithm and calibration data are accessed by HTML services provided through Data Server.  <u>No schedule interface.</u> <u>Schedules are produced by PGS.</u>
DADS2340#A	4481	mission essential	SDPS	functional	demo	un-verified	test	un-verified		Each DADS shall send to remote DAACs, at a minimum, the following: a. L0-L4 b. Metadata c. Ancillary data <del>d. Calibration data</del> <del>e. Correlative data</del> <del>f. Documents</del> <del>g. Algorithms</del>	TRMM - CERES  A: GSFC will forward to LaRC NMC, TOMS, and VIRS data for CERES processing.

10 September 1996

**Table 2 - RbR Deletion Table: This table identifies deletions of existing requirements in the RBR class as identified in the 7/31 baseline version of the RTM database.**

RBR_id	req_key	req_category	segment	req_type	s_verify_method	s_verify_status	a_verify_method	a_verify_status	CCR	text	interpretation text
DADS0180#A	4060	mission essential	SDPS	functional	test	un-verified	test	un-verified		Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets	
DADS0880#A	4121	mission essential	SDPS	functional	test	un-verified	test	un-verified		For data which it has distributed, each DADS, via the LSM, shall generate required accounting information.	

10 September 1996

**Table 3 - Level 4 Change Table: This table identifies modifications to an existing requirements in the Level\_4 class as identified in the 7/31 baseline version of the RTM database.**

L4 id	req_key	rel	req_type	req_status	ver_method	ver_status	CCR	clarification	text
S-DSS-00710	9147	A	interface	approved	demo	<u>un-verified</u>			The SDSRV CI shall accept Data Insert-Requests from other Data Servers- <del>DAACs</del> .
S-DSS-01060	3353	A	functional	approved	demo	<u>un-verified</u>			The <del>DDIST</del> SDSRV CI shall send a Notification to a client that issued a Data Request once the Data Product has been produced or when the STMGT CI has been made the Data available.
S-DSS-03868	3566	<u>AB</u>	interface	approved	demo	<u>un-verified</u>			The SDSRV CI shall be capable of sending status to the WKBCH CI.
S-DSS-03874	3569	<u>AB</u>	interface	approved	demo	<u>un-verified</u>			The SDSRV CI shall be capable of receiving status from the LIMGR CI.
S-DSS-03876	3570	<u>AB</u>	interface	approved	demo	<u>un-verified</u>			The SDSRV CI shall be capable of sending status to the LIMGR CI.
S-DSS-20090	3643	A	functional	approved	demo	<u>un-verified</u>			The STMGT CI shall maintain an Inventory Update Log. <del>The following information shall be recorded: time and date of update, unique data identifier, archive media name, source of data, storage device name and requester.</del>
S-DSS-20700	3713	A	functional	approved	demo	<u>un-verified</u>			The STMGT CI shall provide the capability to select/extract Inventory Update Log records for time periods selected by operations staff.
S-DSS-21400	3793	A	functional	approved	demo	<u>un-verified</u>			The STMGT CI shall provide <u>authorized</u> operations staff a mechanism to create the File Directory.
S-DSS-21410	3794	A	functional	approved	demo	<u>un-verified</u>			The STMGT CI shall provide <u>authorized</u> operations staff a mechanism to append records to the File Directory.
S-DSS-21420	3795	A	functional	approved	demo	<u>un-verified</u>			The STMGT CI shall provide <u>authorized</u> operations staff a mechanism to display selected records in the File Directory.
S-DSS-21440	3797	A	functional	approved	demo	<u>un-verified</u>			The STMGT CI shall provide <u>authorized</u> operations staff a mechanism to update records in the File Directory.
S-DSS-21470	3800	A	functional	approved	demo	<u>un-verified</u>			The STMGT CI shall provide <u>authorized</u> operations staff the capability to view/display/print contents of the File Directory.
S-DSS-21655	4017	A	performance	approved	demo	<u>un-verified</u>		Applies to A/B/C/D for all selected or follow-on form factors.	<del>The DRPHW CI</del> The Science Management within the Data Server shall utilize media with a rated shelf life of at least 10 years as determined by National Archives and Record Administration (NARA), National Institute for Standards and Technology (NIST), NASA or an industry organization.

10 September 1996

**Table 3 - Level 4 Change Table (con't): This table identifies modifications to an existing requirements in the Level\_4 class as identified in the 7/31 baseline version of the RTM database.**

S-DSS-30515	9827	A	functional	<u>approved</u>	<u>demo</u>	<u>un-verified</u>		A: HDF-EOS and V0 native only	The <u>DDIST CI Data Server</u> shall distribute data in the approved ECS standard format in which it is stored. (i.e., HDF-EOS, V0 native, or Landsat 7 standard format.)
S-DSS-60970	3898	A	performance	approved	demo	<u>un-verified</u>			The ACMHW CI at the GSFC DAAC shall be capable of ingesting <u>NOAA NMC</u> data at a nominal rate of TBD bytes per day from the DAO by network data transfer.
S-INS-00229	4059	<u>AB</u>	functional	approved	demo	<u>un-verified</u>			The <u>INGST CI</u> shall allow authorized science users to save the contents of an interactively entered Document Ingest Request in a file with a specified file name.
S-INS-00403	4936	<u>AB</u>	functional	agreed	demo	<u>un-verified</u>			The <u>INGST CI</u> shall perform the following metadata conversions: a. PB5 time into ECS standard date / time format; b. Binary integer values into ASCII integer format; c. Binary floating point values into ASCII floating point format.
S-INS-00404	4101	<u>AB</u>	functional	agreed	demo	<u>un-verified</u>			The <u>INGST CI</u> shall extract metadata from ingested data into a form accepted by the Science Data Server / Document Data Server, as needed, for the following categories of data: a. Metadata parameters stored by parameter byte order and parameter byte length; b. Metadata parameters stored in PVL format; c. Metadata parameters stored in HDF format; d. Dataset-specific metadata formats
S-INS-00406	4103	A	functional	approved	demo	<u>un-verified</u>			The <u>INGST CI</u> shall check selected parameters from extracted metadata to verify: a. <del>Metadata parameters stored in a dataset specific format</del> <u>That all required metadata parameters exist</u> b. For numeric metadata parameters limited by a range of values, that parameter values lie within the specified range c. For metadata parameters with values limited to a set of discrete values, that parameter values are listed in the specified set d. That the metadata parameter syntax is correct e. For metadata containing parameters describing the data size, that the data size is correct (within a specified tolerance) f. That date / time values include a valid month, day of month, hour, minute, and second g. That date / time values include a year value within a range specific for that date / time value
S-INS-01136	9468	A	performance	approved	demo	<u>un-verified</u>			The <u>ICLHW CI</u> at the GSFC DAAC shall be capable of ingesting <u>NOAA NMC</u> data from the DAO at the nominal daily rate specified in Table E-3 of

									Appendix E of the current version of 304-CD-002 for Release A.
--	--	--	--	--	--	--	--	--	--

10 September 1996

**Table 4 - Level 4 Deletion Table: This table identifies deletions of existing requirements in the Level\_4 class as identified in the 7/31 baseline version of the RTM database.**

L4 id	req_key	rel	req_type	req_status	ver_method	ver_status	CCR	clarification	text
S-DSS-03866	-3565	A	interface	approved	demo				The SDSRV CI shall be capable of sending status to the PLANG CI.
S-DSS-61020	-3900	A	performance	approved	demo				The ACMHW CI at the LaRC DAAC shall be capable of ingesting data at a nominal rate of TBD bytes per day from the DAO by network data transfer.
S-INS-00550	-4123	A	interface	approved	demo				The INGST CI shall ingest data, provided by the SDPF, from physical media into the MSFC DAAC as a backup transfer mechanism.
S-INS-00670	-4134	A	interface	approved	demo				The INGST CI shall ingest Data, provided by an SCF, from the ESN into the MSFC DAAC using a file transfer protocol.
S-INS-00830	-9161	A	interface	approved	demo				The INGST CI shall ingest Data, provided by Version 0, from the MSFC DAAC on 8mm tape.
S-INS-01050	-9466	A	performance	approved	demo				The ICLHW CI at the MSFC DAAC shall be capable of ingesting data from the SDPF at the nominal daily rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
S-INS-01060	-9467	A	performance	approved	demo				The ICLHW CI at the MSFC DAAC shall be capable of ingesting data from the SDPF at a maximum daily rate that is three times the nominal rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
S-INS-01100	-4149	A	performance	approved	demo				The INGST CI at the MSFC DAAC shall be capable of receiving data set from the SDPF once per day within 24 hours of the last acquisition Client Session.
S-INS-01138	-9470	A	performance	approved	demo				The ICLHW CI at the LaRC DAAC shall be capable of ingesting data from the DAO at the nominal daily rate specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
S-INS-60745	-9533	A	performance	approved	demo				The ICLHW CI at the MSFC DAAC shall be sized to store and maintain the volume of SDPF data for a 1 year period of time as specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.
S-INS-60760	-9483	A	performance	approved	demo				The ICLHW CI at the MSFC DAAC shall be sized to temporarily store two times the daily volume of SDPF data as specified in Table E-3 of Appendix E of the current version of 304-CD-002 for Release A.

10 September 1996

**Table 5 - Level 4 Addition Table: This table identifies NEW requirements which are to be added to the Level\_4 class in the RTM database.**

L4 id	req_key	rel	req_type	req_status	ver_method	ver_status	CCR	clarification	text
<u>S-DSS-01460</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>un-verified</u>			<u>The SDSRV CI shall accept Subscription Requests that specify an action to be taken and an event to initiate the action.</u>
<u>S-DSS-01482</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>un-verified</u>			<u>The SDSRV CI shall validate Subscription Requests for send notification actions.</u>
<u>S-DSS-01490</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>un-verified</u>			<u>The SDSRV CI shall process Subscription Requests at the occurrence of the specified event.</u>
<u>S-DSS-01500</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>un-verified</u>			<u>In the event that more than one Subscription is linked to a single event, the SDSRV CI shall process the actions defined in the Subscriptions on a first-come, first-serve basis.</u>
<u>S-DSS-01510</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>un-verified</u>			<u>The SDSRV CI shall provide the capability to notify users when data has been archived and is available for access.</u>
<u>S-DSS-01530</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>un-verified</u>			<u>The SDSRV CI shall provide the capability for Subscriptions to notify users via email or directly to a program interface.</u>
<u>S-DSS-01550</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>un-verified</u>			<u>The SDSRV CI shall provide the capability for a user to request notification of data arrival.</u>
<u>S-DSS-01570</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>un-verified</u>			<u>The SDSRV CI shall provide the capability for operations staff to view the stored Subscriptions.</u>
<u>S-DSS-01600</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>un-verified</u>			<u>The SDSRV CI shall provide the capability for operations staff to delete any stored Subscription.</u>
<u>S-DSS-01610</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>demo</u>	<u>un-verified</u>			<u>The SDSRV CI shall provide the capability for a user to delete their own stored Subscription.</u>
<u>S-DSS-02500</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>un-verified</u>			<u>The SDSRV CI shall provide the capability to define new Earth Science Data Types.</u>
<u>S-DSS-21201</u>	<u>NEW</u>	<u>A</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>un-verified</u>			<u>The STMGT CI shall provide the capability to monitor the status of archive resources, file caching resources, and peripheral devices.</u>
<u>S-DSS-30255</u>	<u>NEW</u>	<u>A</u>	<u>interface</u>	<u>approved</u>	<u>test</u>	<u>un-verified</u>			<u>The DDIST CI shall interface with the MSS order tracking capability to update order and request information.</u>
<u>S-DSS-30256</u>	<u>NEW</u>	<u>A</u>	<u>interface</u>	<u>approved</u>	<u>test</u>	<u>un-verified</u>			<u>The DDIST CI shall interface with MSS to log distribution events and status changes.</u>
<u>S-DSS-30711</u>	<u>NEW</u>	<u>A</u>	<u>interface</u>	<u>approved</u>	<u>test</u>	<u>un-verified</u>			<u>The DDIST CI shall be capable of sending data to a remote DAAC.</u>

10 September 1996

**Table 6 - Link Addition Table:** This table identifies NEW links which are to be added to the RTM database.

<u>RbR_Id</u>	<u>Level 4_Id</u>
<u>DADS0100#A</u>	<u>C-CSS-61020</u>
<u>DADS0100#A</u>	<u>C-CSS-61290</u>
<u>DADS0100#A</u>	<u>C-CSS-61390</u>
<u>DADS0145#A</u>	<u>S-INS-00062</u>
<u>DADS0145#A</u>	<u>S-INS-00064</u>
<u>DADS0145#A</u>	<u>S-INS-00100</u>
<u>DADS0145#A</u>	<u>S-INS-00110</u>
<u>DADS0145#A</u>	<u>S-INS-00630</u>
<u>DADS0145#A</u>	<u>S-INS-00640</u>
<u>DADS0210#A</u>	<u>S-DSS-03480</u>
<u>DADS0210#A</u>	<u>S-INS-00520</u>
<u>DADS0210#A</u>	<u>S-INS-00580</u>
<u>DADS0210#A</u>	<u>S-INS-00590</u>
<u>DADS0281#A</u>	<u>S-INS-00520</u>
<u>DADS0310#A</u>	<u>S-INS-00520</u>
<u>DADS0350#A</u>	<u>S-DSS-21490</u>
<u>DADS0350#A</u>	<u>S-INS-00405</u>
<u>DADS0360#A</u>	<u>S-INS-00405</u>
<u>DADS0460#A</u>	<u>S-DSS-03414</u>
<u>DADS0460#A</u>	<u>S-DSS-03420</u>
<u>DADS0498#A</u>	<u>S-DSS-01460</u>
<u>DADS0498#A</u>	<u>S-DSS-01482</u>
<u>DADS0500#A</u>	<u>S-DSS-01460</u>
<u>DADS0500#A</u>	<u>S-DSS-01482</u>
<u>DADS0500#A</u>	<u>S-DSS-01600</u>
<u>DADS0500#A</u>	<u>S-DSS-01610</u>
<u>DADS0540#A</u>	<u>S-DSS-01470</u>
<u>DADS0540#A</u>	<u>S-DSS-01510</u>
<u>DADS0540#A</u>	<u>S-DSS-01530</u>
<u>DADS0540#A</u>	<u>S-DSS-01550</u>
<u>DADS0550#A</u>	<u>S-DSS-01470</u>

DADS0550#A	S-DSS-01510
------------	-------------

10 September 1996

**Table 6 - Link Addition Table (con't):** This table identifies NEW links which are to be added to the RTM database.

DADS0550#A	S-DSS-01530
DADS0550#A	S-DSS-01550
DADS0610#A	S-DSS-02500
DADS0927#A	S-DSS-30255
DADS0927#A	S-DSS-30256
DADS1010#A	S-DSS-03862
DADS1210#A	S-DSS-01510
DADS1310#A	S-DSS-20250
DADS1310#A	S-DSS-21380
DADS1310#A	C-MSS-10200
DADS1310#A	C-MSS-60110
DADS1310#A	C-MSS-60390
DADS1320#A	C-MSS-10200
DADS1320#A	C-MSS-60110
DADS1320#A	C-MSS-60390
DADS1320#A	C-MSS-36090
DADS1330#A	C-MSS-10200
DADS1340#A	C-MSS-66240
DADS1340#A	C-MSS-66320
DADS1340#A	C-MSS-67010
DADS1340#A	C-MSS-68050
DADS1340#A	C-MSS-68090
DADS1360#A	S-DSS-21201
DADS1380#A	S-DSS-30295
DADS1380#A	S-DSS-30340
DADS1380#A	S-DSS-30670
DADS1390#A	S-DSS-30295
DADS2160#A	S-DSS-01570
DADS2315#A	S-DSS-30710
DADS2320#A	S-DSS-30710

<u>DADS2330#A</u>	<u>S-DSS-30710</u>
<u>DADS2340#A</u>	<u>S-DSS-30710</u>
<u>DADS2340#A</u>	<u>S-DSS-30711</u>
<u>DADS2340#A</u>	<u>S-DSS-00710</u>

10 September 1996

**Table 6 - Link Addition Table:** This table identifies NEW links which are to be added to the RTM database.

<u>DADS2370#A</u>	<u>S-DSS-30710</u>
<u>DADS2380#A</u>	<u>S-DSS-30710</u>
<u>DADS2480#A</u>	<u>S-DSS-01490</u>
<u>DADS2480#A</u>	<u>S-DSS-01500</u>
<u>IMS-0240#A</u>	<u>S-DSS-02500</u>
<u>IMS-0740#A</u>	<u>S-DSS-01530</u>
<u>SDPS0050#A</u>	<u>S-DSS-01510</u>
<u>SDPS0080#A</u>	<u>S-DSS-01510</u>
<u>SDPS0150#A</u>	<u>S-DSS-01460</u>
<u>SMC-8800#A</u>	<u>S-DSS-30255</u>
<u>SMC-8800#A</u>	<u>S-DSS-30256</u>

10 September 1996

**Table 7 - Link Deletion Table:** This table identifies existing links which are to be deleted from the RTM database.

RbR_Id	Level 4_Id
DADS0100#A	S-DSS-00702
DADS0100#A	S-DSS-00704
DADS0100#A	S-DSS-10292
DADS0100#A	S-DSS-30797
DADS0110#A	S-INS-00224
DADS0110#A	S-INS-00229
DADS0120#A	S-DSS-03862
DADS0120#A	S-DSS-03868
DADS0120#A	S-DSS-03872
DADS0120#A	S-DSS-03874
DADS0120#A	S-DSS-03876
DADS0440#A	S-DSS-03570
DADS0475#A	S-DSS-60970
DADS0570#A	S-DSS-00140
DADS0780#A	S-INS-00400
DADS0780#A	S-DPS-30740
DADS0780#A	S-DPS-30760
DADS2340#A	S-DSS-04100
DADS2340#A	S-DSS-04110
DADS2340#A	S-DSS-10050
DADS2340#A	S-DSS-10290
PGS-1025#A	S-INS-00200